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EBASCO

August 28, 1987
REM-WGH-06

Ms. Barbara Newman
Remedial Project Manager
U.S. Environmantal Protection Agency
JFK Federal Building
Boston, MA 02203

SUBJECT WELLS G & H RI/FS
WORK ASSIGNMENT NUMBER: 132-1L46
EPA CONTRACT NUMBER: 68-01-7250
FIELD SAMPLING PLAN FOR UNIFIRST

Dear Ms. Newman:

As per your request, I have prepared this letter to summarize Ebasco's data needs for the feasibility study relative to the Unifirst property. We have reviewed the following information and data on the work ERT is doing for Unifirst.

1. Scope of Work and groundwater and soil sampling data for on-site wells UC-4, UC-5, UC-6 and UC-7.
2. Soil Gas Survey Results.
3. Scope of Work for Additional Investigation including 5 deep perimeter wells off-site to the south of the Unifirst property.
4. Scope of Additional Investigations On-site including 6 shallow bedrock wells.

Based on our review of the information and data in No. 1, No. 2 and our discussions with EPA, the groundwater contamination problem at Unifirst appears to be due to "free product" tetrachloroethene present in the fractured bedrock aquifer to depthsup to about 300 feet. A "free product" spill has apparently passed vertically down to the bedrock aquifer and may have migrated via fractures as far south as New England Plastics based on recent data from deep wells at that location.

Review of the soil gas survey results and limited soil sampling results for UC4, UC5, UC6 and UC7 show low volatile organic concentrations in the soil (highest was 170 ppb tetrachloroethene in UC-5). The source of the groundwater contamination appears to be the "free product" and not soil.

As we discussed recently, both additional investigations proposed in No. 3 and No. 4 are important and useful to determine the extent of groundwater contamination and "free product" in the fractured bedrock aquifer. Relative to Ebasco's Feasibility Study of the entire Wells G & H site, the off-site information is more important to evaluate the extent of off-site migration of the PCE. We feel we would need at a minimum 3 of the 5 deep wells proposed (ie. location B, D & E).

The on-site investigation is geared toward identifying the location of "free product" for recovery and disposal by incineration.

Since the off-site work is being done first and will take approximately 10 to 12 weeks, Ebasco will be able to split samples and provide technical oversight of the sampling at the end of our field sampling program in November. EPA will have to get ESD to do oversight before September 8, 1987 and after November 6, 1987 when Ebasco's field activities are scheduled to end. Ebasco can provide technical oversight of the on-site work to the extent possible within the schedule of our field activities.

I trust this clarifies Ebasco's data needs for the Unifirst site and addresses your Work Plan comments of August 19th. The reason we have only included the off-site work in our Final Work Plan is that we did not receive the on-site investigation scope of work until after the Final Work Plan was submitted.

If you have any questions or comments, please don't hesitate to call me.

Very truly yours,

Joseph G. Cleary, P.E.
Site Manager

JGC:ms

cc: Russ Boyd